# Bureau of Land Management



# Amarillo Field Office Helium Operations

Statistical Report for May - 2011





#### Distribution:

Fluid Minerals Group Manager, Washington Office

NMSO, New Mexico State Director

NMSO, Associate State Director

NMSO, Petroleum Engineer

Field Manager, Amarillo Field Office

Assistant Field Managers (3)

**Team Leaders** 

- -Federal Leased Lands
- -Resources Evaluation & Gas Analysis
- -Division Of Helium Operations, -Engineering and Technical Support

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Amarillo, Texas

Compiled by: Nelson R. Bullard

Issued: September 15, 2011

"Please Note: Data in this report is accurate as of print date; however all data is subject to change."

Approved for Distribution: Samuel R.M. Burton /s/

Date: September 15, 2011

State Processed   State Volume   Net Helium   Average Percent   Stosp PTTD   Net Feed Search   State	Holium Enrichment Unit Operations		. 0			
	Helium Enrichment Unit Operations Gas Processed			Average Percent	Gross FYTD	Net FY
Natural Class (Metr')	Measured Plant Feed (Mcf*)`	530,980	139,478	26.27%	5,024,195	1,403,9
Valurae   Mar at 1465 Spee & SP	Helium Product (Mcf*)	173,764	136,985	78.83%	1,749,675	1,383,5
Natural Gas & Liquids Produced   Sas Processed   Sas Process		217,673	0	00.00%	2,103,660	
Bas Processed   Month   F   1216,600   2,076   2,076   2,076	Volumes in Mcf at 14.65 psia & 60°F					
	Natural Gas & Liquids Produced					
Inches   I	Gas Processed				Month	FY
Volume   Mod at 14.79 pails & 60FF	Natural Gas Sales (Mcf***)				216,660	2,076,
Sussh Dome Reservoir Operations					79,289	671,
Nonething   Nonething   Note   Net	** Volumes in Mcf at 14.73 psia & 60°F					
Nonething   Nonething   Note   Net	Bush Dome Reservoir Operations	Mo	nth			
Crude Production (Met')		Gross Volume	Net Helium	Average Percent	Gross FYTD	Net FY
17,355	otal Withdrawn (Mcf*)	545,528	151,517	27.77%	5,012,468	1,422,8
Storage Operations   Open Market Sale Volume Sold/Paid (Mct')   O 0 885,000 635,000 12,848, Open Market Sale Volume Transferred (Mct')   O 0 0 1,880,000 810,000 12,848, Open Market Sale Volume Transferred (Mct')   O 1,454,698   Storage Sale Volume Sold/Paid (Mct')   Open Market Sale Volume Sold/Paid (Mct')   Open Sold/Paid (Mct')   O	Crude Injection (Mcf*)	0	0	00.00%	0	
Storage Operations   Sonservation Helium   Volume Outstanding   Month   FYTD   Curnut   Cur	, ,	17,355	11,861	68.34%	44,799	30,6
Volume   V	Volumes in Mcf at 14.65 psia & 60°F					
Depen Market Sale Volume   Sold/Paid (Mcf')   0   0   885,000   635,000   12,848,   Depen Market Sale Volume Transferred (Mcf')   0   0   1,990,000   810,000   12,848,   Depen Market Sale Volume (Mcf')   14,454,698	Storage Operations					
Open Market Sale Volume Transferred (Mcf*)	Conservation Helium	Volume Outstanding	Month	FYTD	CYTD	Cumula
Donservation Helium in Storage (EOM) (Mcfr)   14,454,698	Open Market Sale Volume Sold/Paid (Mcf*)		0	885,000	635,000	12,848,6
Name   Note   14.65 pass & 60°F	Open Market Sale Volume Transferred (Mcf*)	0	0	1,980,000	810,000	12,848,6
Nind Helium			14,454,698			
Sale Volumes Transferred (Mcf*)	volumes in ivici at 14.65 psia & 60°F					
Sale Volumes Outstanding (Mcf*)   1,255	n Kind Helium		Month	FYTD	CYTD	Cumula
Sale Volumes Outstanding (Mcf*)   1,255			45.852			2,681,1
Volumes in Mcf at 14.65 paia & 60°F	1		·	-,	,	,,
International Content	rude Acquired (Mcf*)		60,835	41,121	67.59%	306,7
State   Stored Helium End Of Month (Mcf')   1,186,709   1,186,70	. , ,		·	•	75.04%	
Volumes in McI at 14.65 psia & 60°F			(194,404)	• • • • •		(1,381,3
Helium Storage Contracts				1,180,709		
Helium Storage Contracts   Charges Billed (\$)   Sala,486   \$2,183, Reservoir Management Fees Billed (\$)   \$258,223   \$2,388, Reservoir Management Fees Billed (\$)   Month   Filled Compressor Charges   Charges Billed (\$)   Sala,493   \$122, Net-Total (Funded by the Refiners (provides for booster compression services)   \$14,983   \$122, Net-Total (Funded by the Refiners for compression costs.)   (\$43,501)   (\$348, Net-Total (Funded by the Refiners for compression costs.)   (\$43,501)   (\$348, Net-Total (Funded by the Refiners (PMF)   \$258,223   \$2,388, Net-Total - Reservior Management Fees (RMF)   \$258,223   \$2,388, Net-Total - Revenue Collected by BLM   \$338,122   \$2,671, Net-Total - Cliffside Refiners, LP, GDA030001   \$338,122   \$2,671, Net-Total - Cliffside Refiners, LP, GDA030001   \$493,345   \$3,946, Net-Total - Cliffside Refiners, LP, GDA030001   \$493,345   \$3,946, Net-Total - Revenue Collected from Federal Lease Holds   \$9,945, Net-Total - Revenue Collected from Federal Lease Holds   \$9,97,548   \$7,709, Net-Total - Revenue Collected from Federal Lease Holds   \$9,97,548   \$7,709, Net-Total - Revenue Collected from Federal Lease Holds   \$9,97,548   \$7,709, Net-Total - Revenue Collected from Federal Lease Holds   \$9,97,548   \$7,709, Net-Total - Revenue Collected from Federal Lease Holds   \$9,97,548   \$7,709, Net-Total - Revenue Collected from Federal Lease Holds   \$9,97,548   \$7,709, Net-Total - Revenue Collected from Federal Lease Holds   \$9,97,548   \$7,709, Net-Total - Revenue Collected from Federal Lease Holds   \$9,97,548   \$7,709, Net-Total - Revenue Collected from Federal Lease Holds   \$9,97,548   \$7,709, Net-Total - Revenue Collected from Federal Lease Holds   \$9,97,548   \$7,709, Net-Total - Revenue Collected from Federal Leas	D / Ole					
Storage Fees Billed (\$)   \$313,486   \$2,183,     Reservoir Management Fees Billed (\$)   \$258,223   \$2,388,     Field Compressor Charges (Charges Billed (\$)   Month   Funded by the Refiners (provides for booster compression services)   (\$58,484)   (\$470,     Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses BLM for fuel, labor, supplies, etc.)   \$14,983   \$122,     Net-Total (Funded by the Refiners for compression costs.)   (\$43,501)   (\$348,     Cenrichment Unit Charges (Charges Billed (\$)   Month   File Reservior Management Fees (RMF)   \$258,223   \$2,388,     Cotal operating costs   (\$831,467)   (\$6,618,     Sub Total - Items provided by BLM   \$338,122   \$2,671,     Total - Cliffside Refiners, LP, GDA030001   (\$493,345)   (\$3,946,     Conservation Helium - Natural Gas - Liquid Sales   \$0   \$66,375,     Nonth   File Conservation Helium - Natural Gas - Liquid Sales   \$0   \$5,666,     Natural Gas & Liquid Sales   \$1,066,907   \$9,495,     Helium Resources Evaluation   Month   File Conservation Helium - Revenue Collected from Federal Lease Holds   \$927,548   \$7,709,     Revenue Collected from Federal Lease Holds   \$927,548   \$7,709,     Conservation Helium - Revenue Collected from Federal Lease Holds   \$927,548   \$7,709,     Conservation Helium - Revenue Collected from Federal Lease Holds   \$927,548   \$7,709,     Conservation Helium - Revenue Collected from Federal Lease Holds   \$927,548   \$7,709,     Conservation Helium - Revenue Collected from Federal Lease Holds   \$927,548   \$7,709,     Conservation Helium - Revenue Collected from Federal Lease Holds   \$927,548   \$7,709,     Conservation Helium - Revenue Collected from Federal Lease Holds   \$927,548   \$7,709,     Conservation Helium - Revenue Collected from Federal Lease Holds   \$927,548   \$7,709,     Conservation Helium - Revenue Collected from Federal Lease Holds   \$927,548   \$7,709,     Conservation Helium - Revenue Collected from Federal Lease Holds   \$927,548   \$7,709,     Conservation Helium - Revenue Collected from Federal Lease Holds   \$927,5						
\$258,223   \$2,388,	_				IVIONTN	
Month   Founded by the Refiners (provides for booster compression services)   (\$58,484) (\$470, \$258,484) (					CO40 40C	F)
Funded by the Refiners (provides for booster compression services)  (\$58,484) (\$470, 2)liffside Refiners, LP, by Agreement #GDA010003 (reimburses BLM for fuel, labor, supplies, etc.)  (\$14,983	Reservoir Management i ees billeα (ψ)					\$2,183,9
\$14,983   \$122,						\$2,183,9
Set-Total (Funded by the Refiners for compression costs.) (\$43,501) (\$348,501) (\$348,501) (\$348,501) (\$348,501) (\$348,501) (\$348,501) (\$6,501) (\$	Field Compressor Charges (Charges Billed (\$)				\$258,223	
Month   F		rices)			\$258,223 Month	\$2,183,9 \$2,388,3
Reservior Management Fees (RMF)       \$258,223       \$2,388,         Total operating costs       (\$831,467)       (\$6,618,         Sub Total - Items provided by BLM       \$338,122       \$2,671,         Total - Cliffside Refiners, LP, GDA030001       (\$493,345)       (\$3,946,         Conservation Helium - Natural Gas - Liquid Sales       (Charges Billed (\$)       Month       F         Open Market Sales       \$0       \$66,375,       \$66,375,       \$1,066,907       \$9,495,         Natural Gas & Liquid Sales       \$1,066,907       \$9,495,       \$9,495,         Helium Resources Evaluation       Month       F         Revenue Collected from Federal Lease Holds       \$927,548       \$7,709,	unded by the Refiners (provides for booster compression serv	•	upplies, etc.)		\$258,223 Month (\$58,484)	\$2,183,9 \$2,388,3 F\ (\$470,7
Reservior Management Fees (RMF)       \$258,223       \$2,388,         Fotal operating costs       (\$831,467)       (\$6,618,         Sub Total - Items provided by BLM       \$338,122       \$2,671,         Fotal - Cliffside Refiners, LP, GDA030001       (\$493,345)       (\$3,946,         Conservation Helium - Natural Gas - Liquid Sales       (Charges Billed (\$)       Month       F         Open Market Sales       \$0       \$66,375,       \$66,375,       \$0       \$5,666,       Natural Gas & Liquid Sales       \$1,066,907       \$9,495,       \$9,495,       \$1,066,907       \$9,495,       \$9,495,       \$1,066,907       \$9,495,       \$7,709,       \$9,7,548       \$7,709,       \$9,7,548       \$7,709,       \$9,7,548       \$7,709,       \$9,7,548       \$7,709,       \$9,7,548       \$7,709,       \$9,7,548       \$7,709,       \$9,7,548       \$7,709,       \$9,7,548       \$7,709,       \$9,7,548       \$7,709,       \$9,	Funded by the Refiners (provides for booster compression serv Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses	•	upplies, etc.)		\$258,223 Month (\$58,484) \$14,983	\$2,183,5 \$2,388,5 F\ (\$470,7 \$122.6
Cotal operating costs   (\$831,467)   (\$6,618	Funded by the Refiners (provides for booster compression service)  Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses)  Net-Total (Funded by the Refiners for compression costs.)	•	upplies, etc.)		\$258,223 Month (\$58,484) \$14,983 (\$43,501)	\$2,183,9 \$2,388,0 F' (\$470,7 \$122,6 (\$348,0
Sub Total - Items provided by BLM       \$338,122       \$2,671,         Total - Cliffside Refiners, LP, GDA030001       (\$493,345)       (\$3,946,         Conservation Helium - Natural Gas - Liquid Sales       (Charges Billed (\$)       Month       F         Open Market Sales       \$0       \$66,375,       \$66,375,       \$0       \$5,666,       \$1,066,907       \$9,495,         Natural Gas & Liquid Sales       \$1,066,907       \$9,495,       \$9,495,       \$1,066,907       \$9,495,         Helium Resources Evaluation       Month       F         Revenue Collected from Federal Lease Holds       \$927,548       \$7,709,	Funded by the Refiners (provides for booster compression serve Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses Net-Total (Funded by the Refiners for compression costs.)  Enrichment Unit Charges (Charges Billed (\$))	•	upplies, etc.)		\$258,223  Month (\$58,484) \$14,983 (\$43,501)	\$2,183,9 \$2,388,0 Fr (\$470,7 \$122,6 (\$348,0
Conservation Helium - Natural Gas - Liquid Sales         (Charges Billed (\$)         Month         F           Open Market Sales         \$0         \$66,375,           In Kind Sales         \$0         \$5,666,           Natural Gas & Liquid Sales         \$1,066,907         \$9,495,           Helium Resources Evaluation         Month         F           Revenue Collected from Federal Lease Holds         \$927,548         \$7,709,	Funded by the Refiners (provides for booster compression serve Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses Net-Total (Funded by the Refiners for compression costs.)  Enrichment Unit Charges (Charges Billed (\$) Reservior Management Fees (RMF)	•	ipplies, etc.)		\$258,223 Month (\$58,484) \$14,983 (\$43,501) Month \$258,223	\$2,183,9 \$2,388,3 F\ (\$470,7 \$122,6 (\$348,0
Conservation Helium - Natural Gas - Liquid Sales         (Charges Billed (\$))         Month         F           Open Market Sales         \$0         \$66,375, n         Kind Sales         \$0         \$5,666, n           Idatural Gas & Liquid Sales         \$1,066,907         \$9,495, n         \$9,495, n         \$1,066,907         \$9,495, n           Helium Resources Evaluation         Month         F         \$1,066,907	Funded by the Refiners (provides for booster compression server compression server)  Eliffside Refiners, LP, by Agreement #GDA010003 (reimburses)  Elet-Total (Funded by the Refiners for compression costs.)  Enrichment Unit Charges (Charges Billed (\$))  Reservior Management Fees (RMF)  Fotal operating costs	•	upplies, etc.)		\$258,223 Month (\$58,484) \$14,983 (\$43,501) Month \$258,223 (\$831,467)	\$2,183,9 \$2,388,3 F\ (\$470,7 \$122,6 (\$348,0 F\ \$2,388,3 (\$6,618,4
Open Market Sales         \$0         \$66,375, r.           in Kind Sales         \$0         \$5,666, r.           latural Gas & Liquid Sales         \$1,066,907         \$9,495, r.           Helium Resources Evaluation         Month         F           Revenue Collected from Federal Lease Holds         \$927,548         \$7,709, r.	Funded by the Refiners (provides for booster compression server complete the Refiners, LP, by Agreement #GDA010003 (reimburses let-Total (Funded by the Refiners for compression costs.)  Enrichment Unit Charges (Charges Billed (\$)) Reservior Management Fees (RMF) Reservior Management Fees (RMF) Reservior Management Fees (RMF)	•	ipplies, etc.)		\$258,223  Month (\$58,484) \$14,983 (\$43,501)  Month \$258,223 (\$831,467) \$338,122	\$2,183,5 \$2,388,3 F\ (\$470,7 \$122,6 (\$348,6 F\ \$2,388,3 (\$6,618,4 \$2,671,6
n Kind Sales         \$0         \$5,666, sq.	Funded by the Refiners (provides for booster compression server complete the Refiners, LP, by Agreement #GDA010003 (reimburses let-Total (Funded by the Refiners for compression costs.)  Enrichment Unit Charges (Charges Billed (\$)) Reservior Management Fees (RMF) Reservior Management Fees (RMF) Reservior Management Fees (RMF)	•	upplies, etc.)		\$258,223  Month (\$58,484) \$14,983 (\$43,501)  Month \$258,223 (\$831,467) \$338,122	\$2,183,5 \$2,388,5 F` (\$470,7 \$122,6 (\$348,6 F' \$2,388,5 (\$6,618,4 \$2,671,6
Idatural Gas & Liquid Sales         \$1,066,907         \$9,495,           Helium Resources Evaluation         Month         F           Revenue Collected from Federal Lease Holds         \$927,548         \$7,709,	Eunded by the Refiners (provides for booster compression service)  Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses let-Total (Funded by the Refiners for compression costs.)  Enrichment Unit Charges (Charges Billed (\$))  Reservior Management Fees (RMF)  Total operating costs  Sub Total - Items provided by BLM  Total - Cliffside Refiners, LP, GDA030001	BLM for fuel, labor, su			\$258,223  Month (\$58,484) \$14,983 (\$43,501)  Month \$258,223 (\$831,467) \$338,122 (\$493,345)	\$2,183,5 \$2,388,5 F' (\$470,7 \$122,6 (\$348,6 F' \$2,388,5 (\$6,618,4 \$2,671,6 (\$3,946,7
Helium Resources Evaluation Revenue Collected from Federal Lease Holds  Month F \$7,709,	Cunded by the Refiners (provides for booster compression serve Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses Net-Total (Funded by the Refiners for compression costs.)  Enrichment Unit Charges (Charges Billed (\$)) Reservior Management Fees (RMF) Total operating costs Sub Total - Items provided by BLM Total - Cliffside Refiners, LP, GDA030001  Conservation Helium - Natural Gas - Liquid S	BLM for fuel, labor, su			\$258,223  Month (\$58,484) \$14,983 (\$43,501)  Month \$258,223 (\$831,467) \$338,122 (\$493,345)  Month	\$2,183,5 \$2,388,5 \$2,388,5 \$1,22,6 \$122,6 \$348,0 \$2,388,5 \$2,671,6 \$2,671,6 \$3,946,7
Revenue Collected from Federal Lease Holds \$927,548 \$7,709,	Conservation Helium - Natural Gas - Liquid Spen Market Sales	BLM for fuel, labor, su			\$258,223  Month (\$58,484) \$14,983 (\$43,501)  Month \$258,223 (\$831,467) \$338,122 (\$493,345)  Month \$0	\$2,183,5 \$2,388,5 \$2,388,5 \$1,22,6 \$348,0 \$2,388,5 \$2,671,6 \$3,946,7 \$66,375,0
Revenue Collected from Federal Lease Holds \$927,548 \$7,709,	Conservation Helium - Natural Gas - Liquid Son Servation Selection Selection of Market Sales  Conservation Helium - Natural Gas - Liquid Son Selection Selec	BLM for fuel, labor, su			\$258,223  Month (\$58,484) \$14,983 (\$43,501)  Month \$258,223 (\$831,467) \$338,122 (\$493,345)  Month \$0 \$0	\$2,183,9 \$2,388,3 FY
	unded by the Refiners (provides for booster compression served liffside Refiners, LP, by Agreement #GDA010003 (reimburses let-Total (Funded by the Refiners for compression costs.)  Enrichment Unit Charges (Charges Billed (\$) (eservior Management Fees (RMF) (cost) (and operating costs (and operating costs (and operating cost) (but Total - Items provided by BLM (cotal - Cliffside Refiners, LP, GDA030001)  Conservation Helium - Natural Gas - Liquid Sepen Market Sales (atural Gas & Liquid Sales (atural Gas & Liquid Sales)	BLM for fuel, labor, su			\$258,223  Month (\$58,484) \$14,983 (\$43,501)  Month \$258,223 (\$831,467) \$338,122 (\$493,345)  Month \$0 \$0	\$2,183,5 \$2,388,5 FY (\$470,7 \$122,6 (\$348,0 FY \$2,388,5 (\$6,618,4 \$2,671,6 (\$3,946,7 \$5,666,4 \$9,495,6
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		Gross V	Vithdrawal	Net Helium	n Withdrawal	Nitro	ogen	Met	hane	Ethan	e plus	Other (CC	02, Ar, H2)
		Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative
<u>TOTAL</u>		545,528	191,723,354	<u>151,517</u>	34,495,915	136,416	47,123,975	228,692	98,649,889	24,384	9,864,245	<u>4,518</u>	1,589,330
BIVINS A-3	May-11	19,245	10,298,225	10,673	3,197,212	4,749	2,606,297	3,355	4,031,738	343	393,685	125	69,293
BIVINS A-6	May-11	53,103	8,808,681	36,259	5,177,667	12,706	2,163,108	3,469	1,308,751	298	125,099	371	34,057
BIVINS A-13	May-11	41,070	6,007,823	18,083	3,519,654	10,225	1,560,472	11,211	810,618	1,251	86,629	299	30,451
BIVINS A-14	May-11	42,212	6,584,795	21,854	4,288,918	10,517	1,678,128	8,627	531,360	890	55,041	324	31,348
BIVINS A-4	May-11	31,118	11,473,322	7,372	2,065,918	7,630	2,780,192	14,302	5,936,623	1,526	590,589	289	99,999
BUSH A-2	May-11	30,805	10,626,809	5,478	1,630,688	7,791	2,592,115	15,615	5,735,645	1,705	576,293	216	92,069
Injection	May-11	0	66,240,889	0	47,846,276	0	17,067,782	0	775,688	0	23	0	551,121
inj Bivins A-3	May-11	0	(25,652,315)	0	(18,384,452)	0	(6,554,549)	0	(332,777)	0	0	0	(380,537)
inj Bivins A-6	May-11	0	(24,201,365)	0	(17,514,139)	0	(6,437,517)	0	(138,222)	0	(12)	0	(111,475)
inj Bivins A-13	May-11	0	(6,490,417)	0	(4,706,191)	0	(1,656,853)	0	(122,391)	0	(2)	0	(4,980)
inj Bivins A-14	May-11	0	(6,501,333)	0	(4,767,421)	0	(1,602,106)	0	(126,303)	0	(7)	0	(5,497)
inj Bivins A-4	May-11	0	(2,527,801)	0	(1,848,815)	0	(601,353)	0	(42,016)	0	0	0	(35,617)
inj Bush A-2	May-11	0	(867,658)	0	(625,258)	0	(215,406)	0	(13,980)	0	0	0	(13,015)
Production	May-11	17,355	1,217,868	11,861	897,578	4,150	261,663	1,125	47,122	98	3,172	121	8,333
BIVINS A-1	May-11	0	2,686,608	0	48,896	0	636,995	0	1,798,415	0	175,704	0	26,597
BIVINS A-2	May-11	18,594	12,783,714	1,104	1,828,214	4,431	3,143,013	11,668	7,013,376	1,218	694,513	172	104,599
BIVINS A-5	May-11	33,439	14,271,220	8,032	1,691,355	8,536	3,482,284	14,979	8,159,116	1,638	813,354	255	125,112
BIVINS A-7	May-11	27,460	10,432,906	8,930	2,345,611	7,153	2,616,029	10,066	4,900,633	1,126	494,003	185	76,631
BIVINS A-9	May-11	24,671	9,236,708	511	173,369	6,373	2,257,866	15,905	6,106,365	1,687	613,594	195	85,514
<b>BIVINS A-11</b>	May-11	19,298	5,207,330	516	103,833	4,933	1,286,463	12,362	3,419,237	1,310	348,612	177	49,185
BIVINS A-15	May-11	20,742	8,140,395	390	400,949	4,896	1,943,000	13,795	5,196,797	1,419	517,956	241	81,692
BIVINS B-1	May-11	20,206	6,378,081	655	257,697	4,950	1,542,860	13,041	4,099,077	1,350	416,039	209	62,408
BIVINS B-2	May-11	19,595	5,082,022	373	95,464	5,001	1,265,494	12,578	3,315,031	1,324	339,136	320	66,897
BUSH A-1	May-11	0	5,721,962	0	104,140	0	1,356,677	0	3,830,281	0	374,216	0	56,647
BUSH A-3	May-11	26,772	10,243,740	12,265	2,153,519	6,877	2,518,392	6,655	4,983,244	755	498,232	219	90,353
BUSH A-4	May-11	25,519	7,377,982	5,200	1,388,610	6,556	1,838,320	12,278	3,720,694	1,332	375,670	153	54,688
BUSH A-5	May-11	39,792	14,035,968	12,345	3,064,564	10,177	3,512,414	15,351	6,687,682	1,689	671,136	229	100,171
BUSH A-8	May-11	12,737	3,345,564	235	61,263	3,149	804,478	8,299	2,218,340	862	222,303	191	39,181
BUSH A-9	May-11	0	3,649,808	0	94,071	0	877,193	0	2,406,297	0	239,058	0	33,188
BUSH A-11	May-11	18,738	3,884,340	611	114,802	4,519	928,412	12,125	2,540,300	1,251	257,252	232	43,574
BUSH B-1	May-11	1,200	3,169,999	19	59,531	251	751,883	824	2,119,285	97	208,203	8	31,097
FUQUA A-1	May-11	0	2,954,073	0	53,853	0	702,792	0	1,975,158	0	193,571	0	28,699
FUQUA A-2	May-11	0	132,119	0	2,404	0	31,322	0	88,458	0	8,637	0	1,297
FUQUA A-3	May-11	19,214	9,189,161	612	573,712	4,994	2,247,777	12,186	5,717,368	1,315	575,720	107	74,585
TT Fuel	May-11	1,206	0	19	0	249	0	831	0	99	0	8	0
	fie	ld-wide pcts		27.77%	17.99%	25.01%	24.58%	41.92%	51.45%	4.47%	5.15%	0.83%	0.83%

Latest estimates of	f reserves	and feed	to HEU

\* All volumes on Table 2 are reported in Mcf at 14.65 psia & 60°F

Based on NITEC's 2003 reserves study from NITEC's interim report

As of EOM	May-11	Volumes in BCF				
Initial Gas In Pla	ace	330.040				
Produced 1924	to 1961	48.830				
Injected 1924 to	1961	0.450				
Remaining Gas	In Place 1961	281.660				
Left Behind Pip	e, 1961	82.060	====>	1.500	BCF of contained helium	
Remaining in P	lace, 1961	199.600				
Gas In Place 19	961	199.600				
Produced 1961	to July 2002	82.450				
Injected 1961 to	July 2002	64.510		Net Helium		
Remaining Gas	In Place July 2002	181.660		33.997		
Produced July 2	2002 through Dec 2002	1.096		0.743		
Production 200	3 - 10	56.328		15.284		
Injection 2003 -	10	(1.189)		(0.985)		
Produced to Da	ite 2011	3.017		0.865		
Injected to Date	2011	0.000		0.000		
Amount of Raw	Gas Available to CHEU	122.409	====>	18.091	total helium in reservoir	est z-factor
Estimated Botto	om Hole Pressure	450.676				0.980

### Crude Helium Enrichment Unit Operations

		Gross W	/ithdrawal	Net Helium	Withdrawal	Nitr	ogen	Met	hane	Ethan	e plus	Other (C0	D2, Ar, H2)
		Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative
Measured Feed	May-11	530,980	56,843,476	139,478	14,489,669	132,771	14,275,530	229,825	24,940,311	24,488	2,658,039	4,418	479,928
Calculated Feed	May-11	526,963	56,545,605	139,637	14,486,224	132,016	14,201,636	226,736	24,735,793	24,187	2,644,024	4,388	477,927
Feed to Box	May-11	523,850	56,211,812	139,637	14,486,403	132,016	14,201,718	226,736	24,735,839	24,187	2,644,031	1,275	143,820
Cheu Product	May-11	173,764	18,191,135	136,985	14,285,850	32,179	3,425,133	3,380	353,577	1	394	1,219	126,180
Residue	May-11	217,673	24,888,685	0	1,476	5,953	622,198	192,999	22,062,576	18,722	2,201,204	0	1,230
Cold Box Vent	May-11	81,105	9,791,524	131	84,112	74,813	8,575,756	6,148	1,071,303	(0)	136	13	60,218
Flare/Boot Strap	May-11	23,195	852,948	1,622	45,191	6,474	335,370	13,639	373,690	1,448	93,495	12	5,203
Fuel From Cheu	May-11	6,465	791,870	0	245	220	23,589	5,232	642,157	1,014	125,879	0	0
Shrinkage/Loss	May-11	3,002	215,429	0	0	0	0	0	0	3,002	215,429	0	0
Unaccounted*	May-11	18,643	1,470,575	896	64,293	12,377	1,221,341	5,339	181,927	0	1,084	31	1,930

\*Before October 2004, the values are estimated

#### Storage Operations

inventor	y (C	oniai	nea	nelium,	)

Beginning inventory	14,504,273	1,291,273
net acceptances +	0	0
redeliveries	0	(150,416
In Kind Transfers	(45,852)	45,852
Open Market Sales	0	C
Gain/loss	(3,722)	
Ending Inventory	14,454,698	1,186,709
Total Helium in Reservoir	18,090,773	
Total Helium in Storage	15,641,407	
Helium in native gas	2,449,366	

#### Crude Helium Pipeline

Private

Government

	Gross	Net Helium	Percent
Beginning inventory	45,459	34,876	76.72%
Measured to Pipeline (Private Plants)	60,835	41,279	67.85%
Measured from Pipeline (Private Plant:	255,239	191,537	75.04%
HEU Production	173,764	136,985	78.83%
Injection	0	0	00.00%
Production	17,355	11,861	68.34%
Ending Inventory	39,524	29,742	75.25%
Gain/Loss	(2,650)	(3,722)	

# Tuck Trigg Reservoir Operations

		Since Field
Month	Fiscal Year	Discovery
5,198,688	5,198,688	5,890,000
4,528,688	4,528,688	5,220,000
0	0	691,312
5,198,688	5,198,688	5,198,688
4,528,688	4,528,688	4,528,688
	5,198,688 4,528,688 0 5,198,688	5,198,688 5,198,688 4,528,688 4,528,688 0 0 5,198,688 5,198,688

<sup>\*</sup> All volumes on Table 3 are reported in Mcf at 14.65 psia & 60°F

In Kind Helium  AirGas South West, Contract no. INC98-0101  Month FYTD  AirGas North Central, Contract no. INC98-0102  Month FYTD  Air Liquide Helium America, Inc., Contract no. INC98-0103  Month FYTD  Air Liquide Helium America, Inc., Contract no. INC98-0104  Month FYTD  Air Liquide Helium America, Inc., Contract no. INC98-0104  Month FYTD  Linde Gas North America, LLC, Contract no. INC98-0106  Month FYTD  Corp Brothers, Inc., Contract no. INC98-0107  Month FYTD  FIBA Technologies, Inc., Contract no. INC98-0108  Month FYTD  General Air Service & Supply Co., Contract no. INC98-0109  Month FYTD  Jack B. Kelley Co., Contract no. INC98-0110  Month FYTD  Portland Welding Supply, Contract no. INC98-0111  Month FYTD  Portland Welding Supply, Contract no. INC98-0112  Month FYTD  Portland Welding Supply, Contract no. INC98-0113  Month FYTD  United States Welding, Inc., Contract no. INC98-0113  Month FYTD  United States Welding, Inc., Contract no. INC98-0113  Month FYTD  United States Welding, Inc., Contract no. INC98-0114  Month FYTD  United States Welding, Inc., Contract no. INC98-0113  Month FYTD  United States Welding, Inc., Contract no. INC98-0114  Month FYTD  United States No., Contract no. INC98-0114  Month FYTD  CT & S., Contract no. INC00-0115											
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Month FYTD  Praxair, Inc., Contract no. INC98-0112  Month FYTD  United States Welding, Inc., Contract no. INC98-0113  Month FYTD  Matheson Tri-Gas, Inc., Contract no. INC98-0114  Month FYTD  GT & S, Contract no. INC00-0115		Supply, Cont	ract no. INC98	R-0111							
Praxair, Inc., Contract no. INC98-0112  Month FYTD  United States Welding, Inc., Contract no. INC98-0113  Month FYTD  Matheson Tri-Gas, Inc., Contract no. INC98-0114  Month FYTD  GT & S, Contract no. INC00-0115	_	рг.у, оо									
Month FYTD  United States Welding, Inc., Contract no. INC98-0113  Month FYTD  Matheson Tri-Gas, Inc., Contract no. INC98-0114  Month FYTD  GT & S, Contract no. INC00-0115	FYTD										
FYTD United States Welding, Inc., Contract no. INC98-0113 Month FYTD Matheson Tri-Gas, Inc., Contract no. INC98-0114 Month FYTD GT & S, Contract no. INC00-0115		act no. INC9	8-0112								
United States Welding, Inc., Contract no. INC98-0113  Month FYTD  Matheson Tri-Gas, Inc., Contract no. INC98-0114  Month FYTD  GT & S, Contract no. INC00-0115											
Month FYTD  Matheson Tri-Gas, Inc., Contract no. INC98-0114  Month FYTD  GT & S, Contract no. INC00-0115		ling, Inc., Co	ntract no. INC	98-0113							
Matheson Tri-Gas, Inc., Contract no. INC98-0114  Month FYTD  GT & S, Contract no. INC00-0115	Month	<b>J</b> , ,									
Month FYTD GT & S, Contract no. INC00-0115											
FYTD GT & S, Contract no. INC00-0115		Inc., Contrac	ct no. INC98-0	114							
GT & S, Contract no. INC00-0115											
		o. INC00-011	15								
	Month										
FYTD Tatal month		-							_		00
										<b>\$</b> E 000	\$0 6.402
Total FYTD         44,364         4,268         3         67         14,029         26,154         88,885         87,512         \$5,666,40           Total CYTD         26,819         2,309         3         40         4,642         13,836         47,648         46,911         \$3,037,48											
Cumulative 1,590,004 80,373 233 270,423 361,311 422,233 2,724,577 2,682,341 \$146,156,34								· ·			
In Kind Transfers    Month   FYTD   CYTD   Cumulative   CYTD   CY			00,070	200	210,720	001,011	722,200				
Transferred 45,852 129,299 86,453 2,681,16											
Volume outstanding 1,255									120,200	2,001	,

<sup>\*</sup> Volumes in Mcf at 14.7 psia & 70°F

<sup>+</sup> Volumes in Mcf at 14.65 psia & 60°F

# **Helium & Natural Gas Sales**

	Award Volume*	Outstanding*	Sales*	Cha	rges Billed (\$)**
Conservation Helium					(billed quarterly)
Air Liquide Helium America, Inc.					
Month	0	0	0		\$0
FYTD	175,000	0	175,000		\$13,125,000
Cumulative	252,000		252,000		\$17,383,500
Air Products, L.P.					
Month	0	0	0		\$0
FYTD	690,000	340,000	350,000		\$26,250,000
Cumulative	5,399,400		5,059,400		\$304,656,750
Linde Gas North America, LLC					
Month	0	0	0		\$0
FYTD	210,000	150,000	60,000		\$4,500,000
Cumulative	4,134,000		3,984,000		\$230,203,750
Keyes Helium Co., LLC					
Month	0	0	0		
FYTD	0	0	0		
Cumulative	678,200		678,200	\$40,177,4	
Matheson Tri-Gas, Inc.					
Month	0	0	0	\$	
FYTD	0	0	0		\$0
Cumulative	10,000		10,000		\$587,500
Praxair, Inc.					
Month	0	0	0		\$0
FYTD	500,000	200,000	300,000		\$22,500,000
Cumulative	2,865,000		2,665,000		\$161,008,750
Linde Gas, LLC discontinued 10 2008					
Month	0	0	0		\$0
FYTD	0	0	0		\$0
Cumulative	200,000		200,000		\$11,035,000
Total month	0	0	0		\$0
Total FYTD	1,575,000	690,000	885,000		\$66,375,000
Total CYTD	1,325,000		635,000	\$47,625,0	
Cumulative	13,538,600		12,848,600		\$765,052,650
Open Market Transfers		Month	FYTD	CYTD	Cumulative
Transferred		0	1,980,000	810,000	12,848,600
Volume outstanding		0			

<sup>\*</sup> Volumes in Mcf at 14.65 psia & 60°F

Natural Gas/Liquid Sales

	Natural Gas (Mcf)***	NGLs (gal)	Decatherms	Avg Btu Value	Charges Billed (\$)**
El Paso Natural Gas		Provides Measured F	irm/Interruptible Tran	sportation Services	(billed monthly)
Month	216,660		236,968	1,094	(\$27,997)
FYTD	2,076,079		2,273,729	1,095	(\$237,299)
Cumulative	24,347,632		26,773,750	1,100	(\$2,767,118)
Minerals Manageme	ent Service	No Longer Provides !	Natural Gas Marketing	g Services	
Cumulative					(\$179,913)
<u>Tenaska</u>		Purchaser - Natural (	as	\$\$/Unit	
Month			233,950	\$4.066547	\$951,369
FYTD			2,267,636	\$3.809744	\$8,635,973
Cumulative			26,605,249	\$5.489727	\$145,228,996
<u>Sandstone</u>		Purchaser - Natural (	Sas Liquids		
Month		79,289	8,483	\$16.920341	\$143,535
FYTD		671,970	71,672	\$15.305727	\$1,096,992
Cumulative		6,628,258	707,685	\$11.930643	\$8,443,137
	Natural Gas (Mcf)***	NGLs (gal)	Purchased (Dth's)	\$\$ Per Unit (\$\$/Dth)	Total (\$\$)
Total month	216,660	79,289	242,433	\$4.400832	\$1,066,907
Total FYTD	2,076,079	671,970	2,339,308	\$4.060520	\$9,495,666
Total CYTD	1,232,078	412,730	1,384,738	\$4.265532	\$5,906,645
Cumulative	24,347,632	6,628,258	27,312,934	\$5.548714	\$150,725,101

<sup>\*\*\*</sup> Volumes in Mcf at 14.73 psia & 60°F

All Volumes in Mcf at 14.7 psia & 70°F

Revenue Collected From Federal Leaseholds	Month*	FYTD*
Fee Sales & Royalties	\$928,680	\$7,691,484
Natural Gas Royalties (1)	\$707	\$7,486
Natural Gas Rentals	\$0	\$640
Other	\$10,112	<u>\$106,157</u>
Revenue Collected from Federal Lease Holds	\$927,548	\$7,709,722

<sup>\*</sup>Totals do not sum

Helium Analysis and Evaulation	Month	FYTD
Number of Sample Request Letters Sent	0	0
Number of Samples Received	0	5
Number of Samples Analyzed	0	18
Total Number of Samples Analyzed For Resources Division	0	38
Total Number of Other Samples Analyzed (2)	7	158

## **U. S. Helium Production**

Domestic	FY Volume		CY Volume
2006 Helium Sold	4,995,800		4,944,544
2007 Helium Sold	4,995,600		4,965,176
2008 Helium Sold	4,771,200		4,668,286
2009 Helium Sold	4,325,600		4,238,415
2010 Helium Sold	4,556,100		5,399,709
Estimated Helium Resources as of 12/31/2006(Mcf)			732,000,000

		FY-2010	CY-2010
U.S. Helium Exports	(3)	2,663,848	2,767,536

- (1) Includes drip gas sales & other miscellaneous gas sales.
- (2) Includes pipeline, field survey, and other requested analyses.
- (3) Data from Department of Commerce Bureau of the Census.

7 til Volumoe	Metered Gas					Transfe	rred Gas	Stored	Charo	es Billed	
	Gross Gas   Helium %   Helium			Helium		Helium		Helium	(	\$)**	
		Month	Honam	FYTD	CYTD	Cumulative	Month Cumulative		EOM	Month	*′ FYTD
Total All Contra	acts*										
Crude Acquired	60,835	67.6%	41,121	306,786	186,838	29,810,729	87,658	44,723,734			
Crude Disposed	255,239	75.0%	191,537	1,688,120	1,024,875	42,032,650	41,806	29,836,386		\$313,486	Storage Fees
Grade-A Rdlvrd	0		0	0	0	1,478,718	,			\$258,223	RMF Fees
Net/Balance	(194,404)			(1,381,334)		(13,700,639)	45,852	14,887,348	1,186,709	\$571,710	\$4,572,330
Total Prior Con		NATED)	(100,110)	(1,001,001,	(,)	(10,100,000)	10,002	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7571,110	<del>, , , , , , , , , , , , , , , , , , , </del>
Crude Acquired		,,		0	0	17,406,129	0	18,196,898			
Crude Disposed				0	0	11,830,863	0	19,148,768			
Grade-A Rdlvrd				0	0	1,478,718	Ü	10,110,700			
Number of trailers				0	0	9,834			0		
Linde Gas Nort	h Amorica II	C Contra	ot no. 100			9,004			U		
	II Allierica, LL	.c, contra	ici iio. 198	93-3249							
Crude Acquired											
Crude Disposed											
Net/Balance		25 2254									
Praxair, Inc., Co	ontract no. 19	95-3251									
Crude Acquired											
Crude Disposed											
Net/Balance											
Air Products, L	.P., Contract r	10. 1995-3	256								
Crude Acquired											
Crude Disposed											
Net/Balance											
ExxonMobil Ga	s Marketing C	o., Contra	act no. 19	95-3280							
Crude Acquired											
Crude Disposed											
Net/Balance											
<b>Pioneer Natura</b>	l Resources U	JSA, Inc, C	Contract n	o. 1995-328	86						
Crude Acquired											
Crude Disposed											
Net/Balance											
Keyes Helium (	Co., LLC, Cont	tract no. 1	995-3287								
Crude Acquired											
Crude Disposed											
Net/Balance											
Air Liquide Heli	ium America.	Inc Cont	ract no. 2	003-3284							
Crude Acquired		,									
Crude Disposed											
Net/Balance											
Matheson Tri-G	as. Inc., Cont	ract no. 2	007-3288								
Crude Acquired	,,		J <b></b>								
Crude Disposed											
Net/Balance											
Airgas Merchar	nt Gases, Con	tract no 3	2009-3290								
Crude Acquired	50555, 5511	401 1101 2	-505 5250								
Crude Disposed											
Net/Balance											
1 TO C Dalario											

Government Helium	
Remaining Crude Acquired beginning of the month	14,504,273
Crude Disposed: In Kind Sales transferred for the month	(45,852)
Open Market/Reserve Sell Down transferred for the month	0
Gains and Loses for the month	(3,722)
Net/Balance of Purchased Helium Remaining for Sale	14,454,698

<sup>\*</sup>Includes In Kind and Open Market transfers from Government storage

\*\*Rounded to nearest dollar

Field/CHEU Compressor Operations		Month	FYTD	Cumulative
Spot gas fuel price *	\$ per/MMBTU	\$4.07	\$3.82	\$5.54
Fuel used *	total MMBTU	8,406	74,159	1,123,077
Field Compression Fuel Cost *	\$dollars	\$1,951	\$4,639	\$654,398
CHEU Compression Fuel Cost *	\$dollars	\$19,535	\$157,033	\$3,318,166
CHEU Process Fuel Cost *	\$dollars	\$12,727	\$121,555	\$2,245,760
#1 Compressor run time *	hours	567	4,808	64,662
#2 Compressor run time *	hours	453	4,657	45,028
#3 Compressor run time *	hours	373	1,970	31,490

<sup>\*</sup> Field/CHEU Compressor Operations based on May 11 activity

Field Compressor Charges	Charges Billed (\$)*		
Linde Gas North America, LLC, Contract no. 1995-3249			
Praxair, Inc., Contract no. 1995-3251			
Air Products, L.P., Contract no. 1995-3256			
Keyes Helium Co., LLC, Contract no. 1995-3287			
SubTotal - Cliffside Refiners, LP (provides booster compression services)	(\$58,484)		V
Cliffside Refiners, LP, GDA010003 (BLM provided fuel *, labor, supplies, etc.)	<u>\$14,983</u>	<u>\$122,699</u>	<u>\$2,026,909</u>
Net Total - Cliffside Refiners, LP	(\$43,501)	(\$348,006)	(\$6,147,694)

<sup>\*</sup> BLM provided fuel cost is based on Apr 11 fuel consumed

<sup>\*</sup>Rounded to nearest dollar

Crude Helium Enrichment Unit (CHEU)	N	<b>N</b> onth	FYT	Cumulative	
CHEU Runtime	Runtime Hrs	Runtime Hrs Percent Runtime Hrs		Percent	Runtime Hrs
Processing feed gas	608	81.7%	5,448	93.4%	67,120
Producing residue gas	553	74.3%	5,324	91.3%	66,418
Producing helium product	552	74.1%	5,309	91.0%	63,521
Producing natural gas liquids	553	74.4%	5,312	91.1%	62,051

	Charges Billed (\$)*		
CHEU Charges	Month	FYTD	Cummulative
Reservior Management Fees (RMF)	\$258,223	\$2,388,361	\$18,719,098
Total operating costs	<u>(\$831,467)</u>	(\$6,618,429)	(\$83,705,159)
Labor	\$102,454	\$819,631	\$7,353,301
Compressor fuel cost Apr 11	\$22,649	\$185,211	\$3,349,249
HEU fuel cost Apr 11	\$16,191	\$131,602	\$2,277,860
Electrical power cost Mar 11	\$137,770	\$1,062,761	\$12,467,730
Other	<u>\$59,058</u>	<u>\$472,462</u>	\$8,340,822
Sub Total - Items provided by BLM	\$338,122	\$2,671,668	\$36,998,316
Total - Cliffside Refiners, LP, GDA030001	(\$493,345)	(\$3,946,762)	(\$46,706,842)

#### \*Rounded to nearest dollar

CHEU Utility Usage	Month	FYTD	Cumulative
Cheu Fuel Gas (Mcf) usage May 11	2,809	28,091	360,128
Cheu Pure Water Usage (gallons) May 11	620	7,440	240,292
Electricity Metered (Kwh) consumed Mar 11	3,046,335	21,579,346	221,880,166